



Logistics Consideration

LtCol J. Alex Vohr

Logistics - A Force Multiplier



MSTP

- It was really not until I was a MEF Commander that I realized how much of a Logistician a MAGTF Officer must be.

LtGen B. B. Knutson USMC (Ret)

- The power of the MAGTF is generated by the combined and integrated efforts of the MAGLTF - Marine Air Ground "Logistics" Task Force.

LtGen G. R. Christmas USMC (Ret)

- When asked in Baghdad to identify the number one success of I MEF, LtGen Conway's response was "Logistics"

Purpose



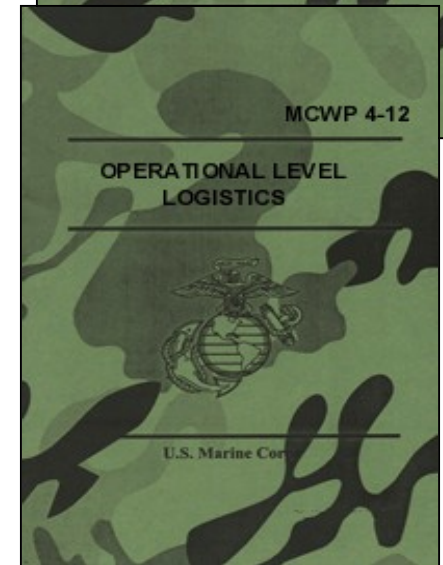
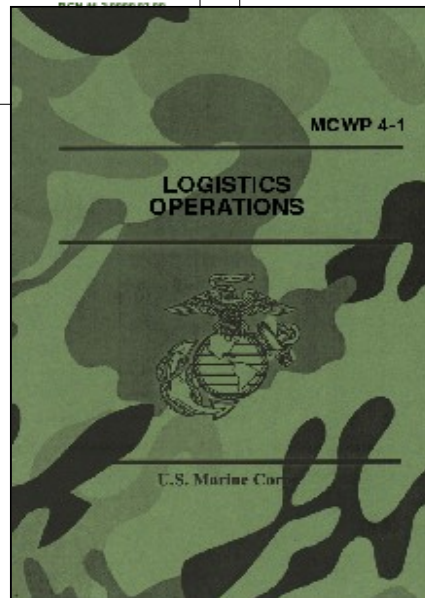
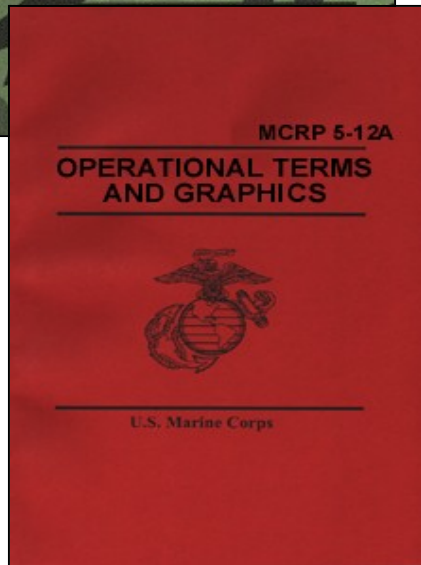
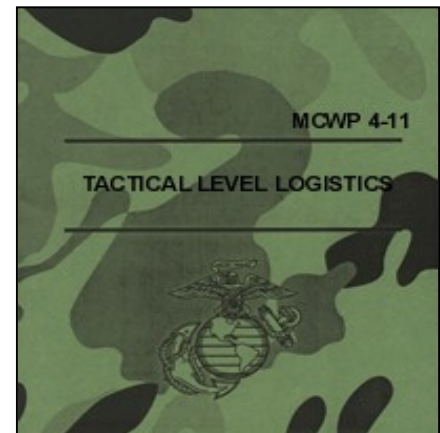
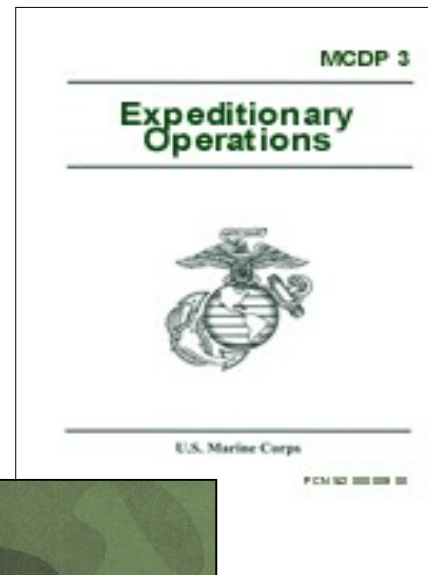
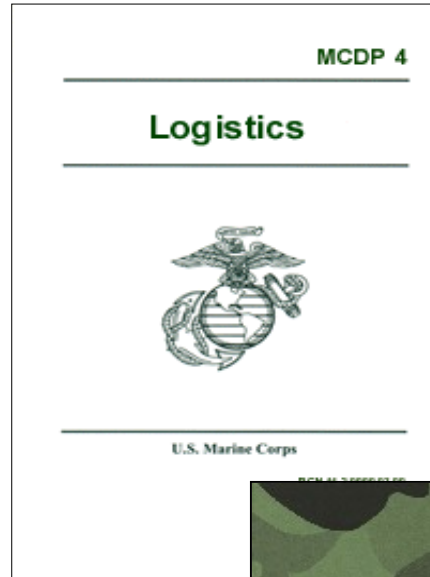
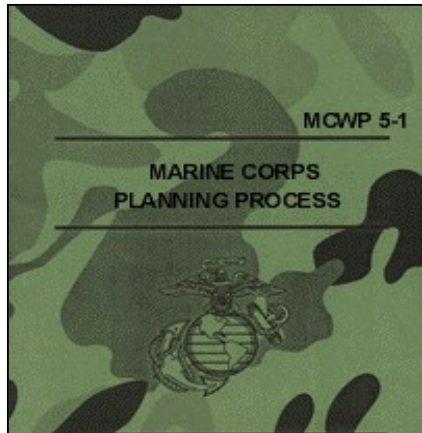
MSTP

- Examine logistics as a Science and an Art
- Discuss logistics planners and staff relationships
- Discuss logistics battle-space and intelligence support to logistics planning
- Discuss the Elements of a Logistics System
 - Requirements
 - Resources
 - Distribution System
 - Command and Control

References



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Why Logistics?



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The *objective* of Marine Corps logistic planning is to match the deployment and sustainment activities of our logistics system to the logistic requirements of the operating forces.

MCDP 4

“Without Logistics, weapons go without ammunition, vehicles go without fuel, equipment breaks and stands idle, the sick and wounded go untreated, troops go without food, shelter and clothing. Thus *logistics establishes the limits on what is operationally possible*....the goal of our logistics effort is to extend those limits...”

MCDP 4

Logistics – Science Or Art?



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SCIENCE

- Body of facts, relationships, and rules
- Calculation, deduction, and predictability
- The chaotic nature of war requires understanding of the assumptions that underlie the calculations

MCDP 4

ART

- Creative application of scientific knowledge
- Judgment, experience, foresight, and intuition
- Supplement analysis and calculation with foresight and intuition
IOT anticipate future requirements

Combination of Science and Art - applied science - where “logistics is defined less by a set of activities than by its results.”

MCDP 4

OPT Representatives



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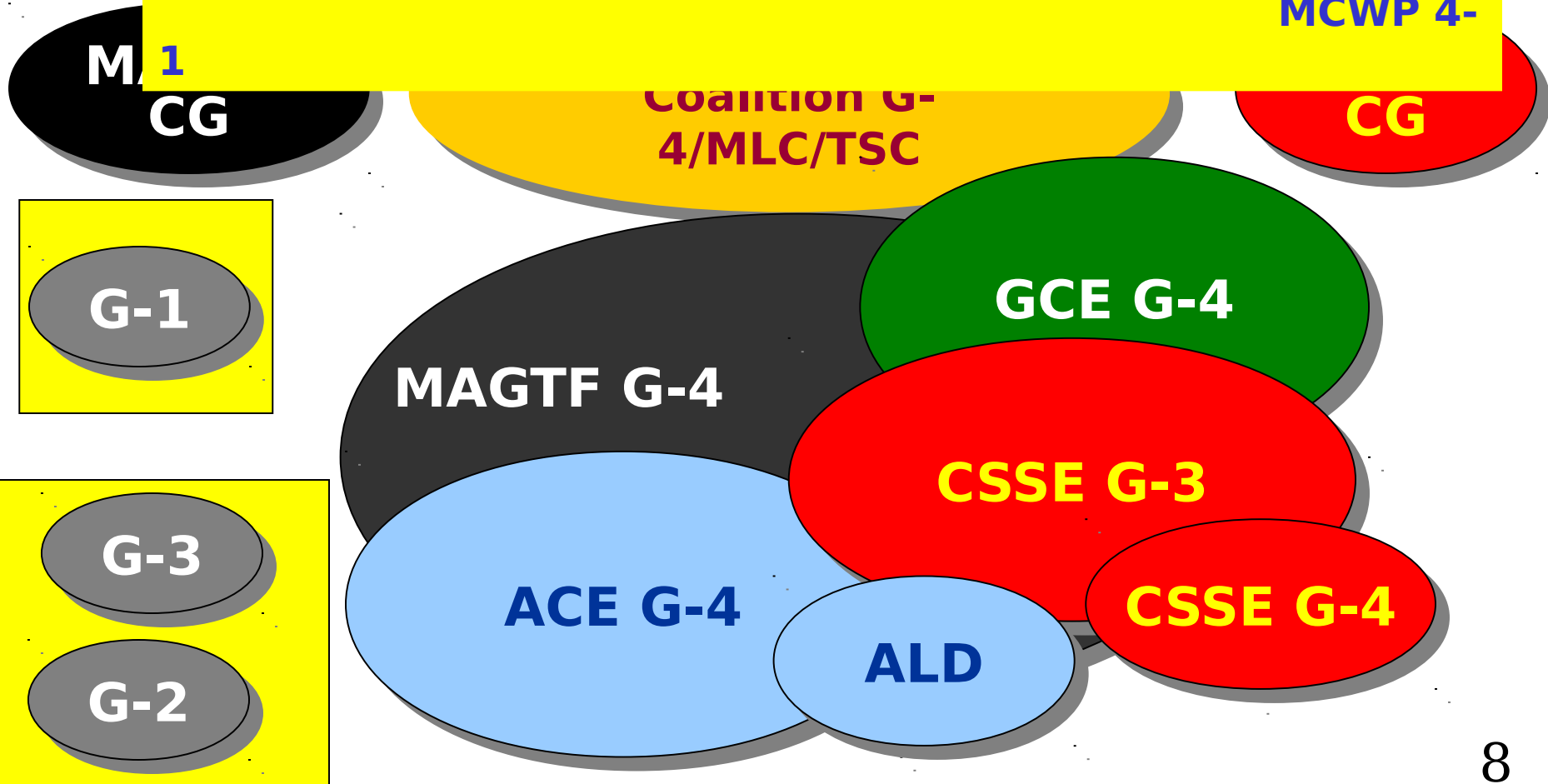
- Understand the Marine Corps Planning Process (MCWP 5-1)
- Bring the doctrinal functional area references [MCDP/WP/RP, FM, TM] required for their Warfighting or SME functions
- Maintain up to date awareness of parallel (logistics) planning relationships and efforts in other OPTs
- Understand logistics relationships in a joint environment
- Read HHQ OpOrd (or other information as appropriate) prior to walking in the door
- Understand the impact of terminology

Logistics Relationships

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Commanders normally delegate authority for logistics matters to members of their staffs and subordinate commanders ...

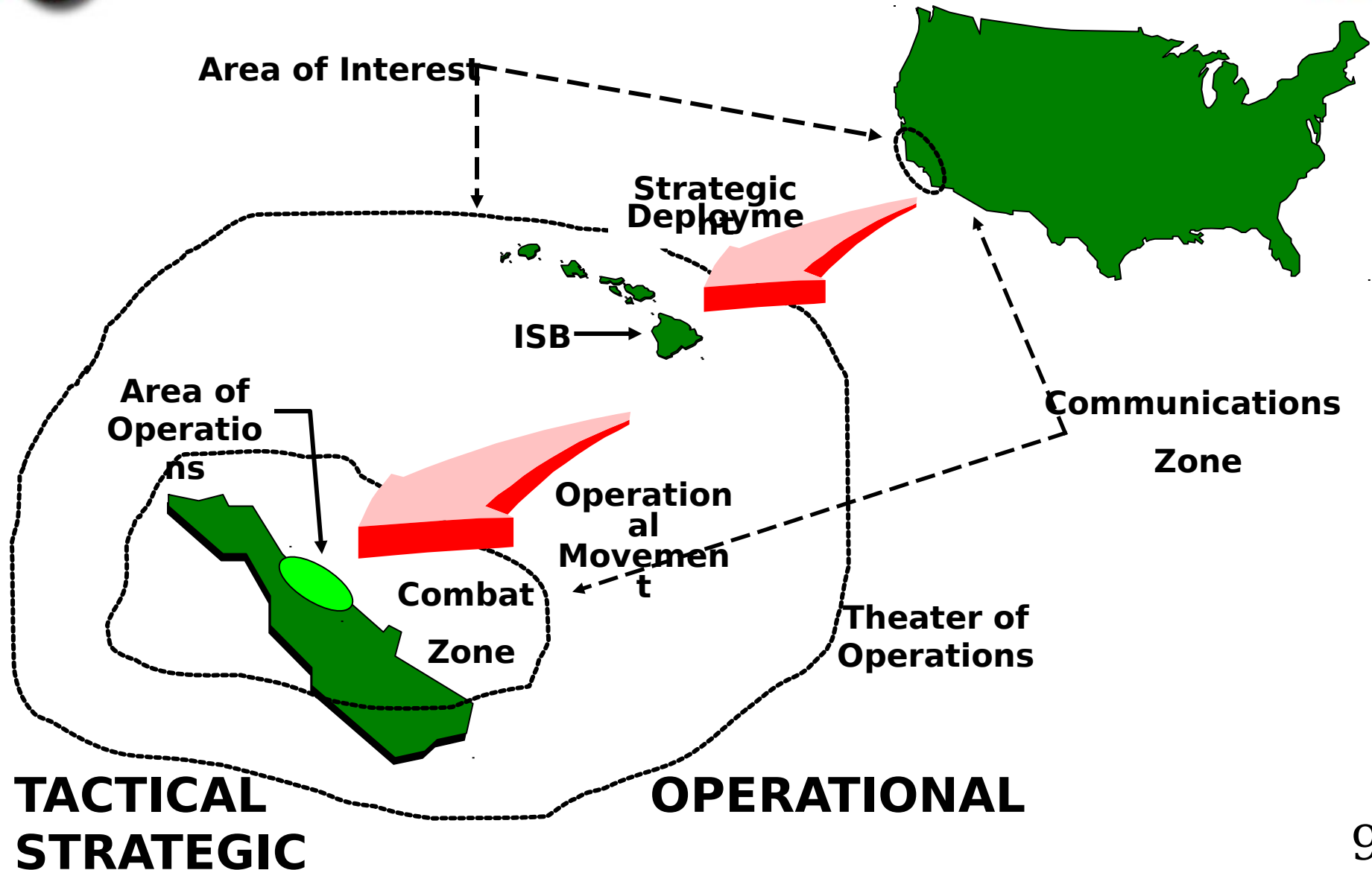
MCWP 4-



Logistics Battlespace



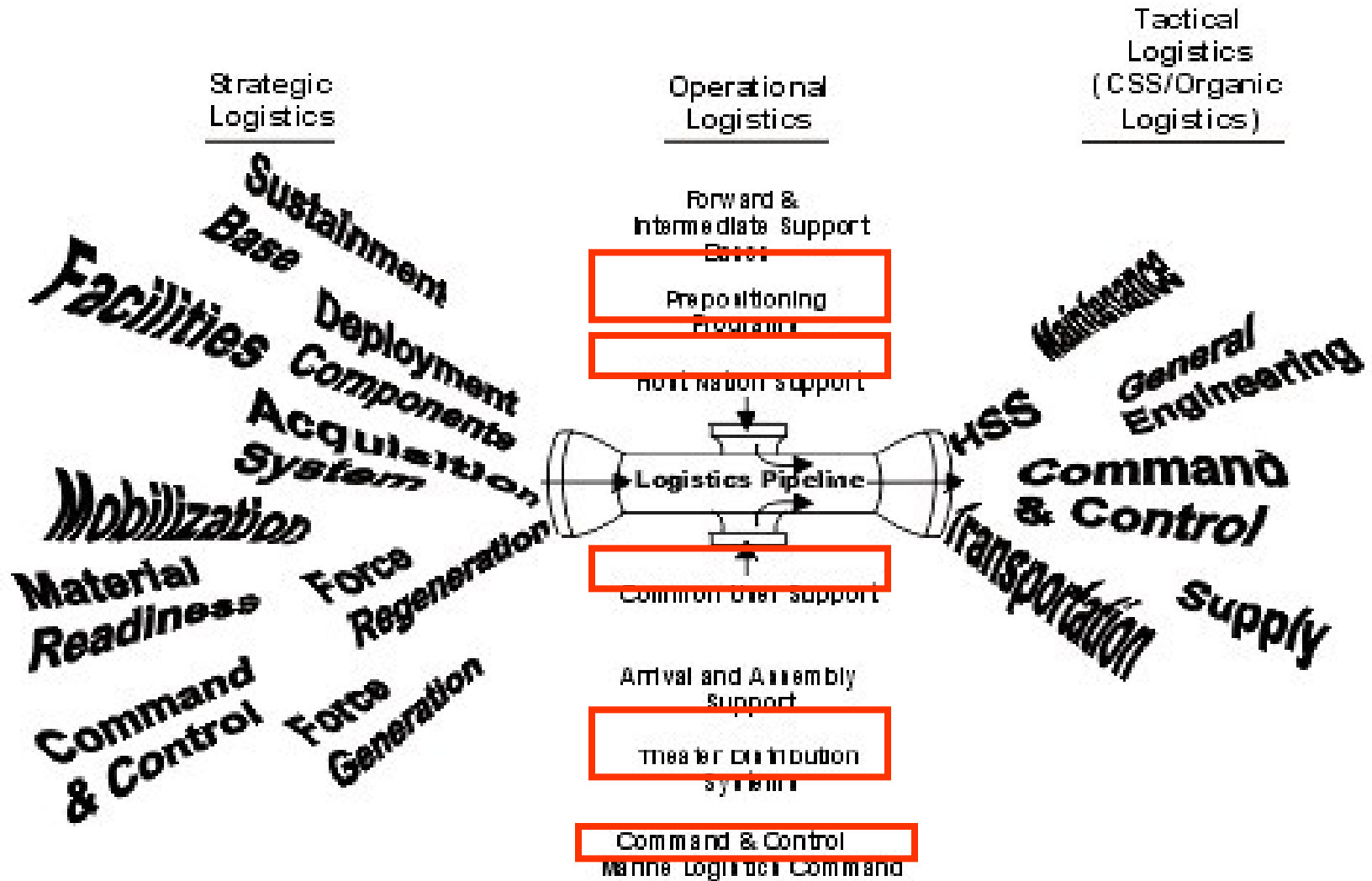
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Logistics Functions



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Intelligence ISO Logistics



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“Logistics mission planning starts with a logistics intelligence preparation of the battlespace ... [you] must understand the logistics requirements for operations in your assigned AO...”

LtGen J. A. Brabham USMC (Ret)

Logistics intelligence is specific intelligence information that assists logistic organizations...

- Focuses on the infrastructure in the area of interest
- Not exclusively enemy information
- The effect of weather, enemy, and terrain on logistics operations

MCWP 4-11

Encyclopedic Data



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70,000 SQ KM

25 MILLION PEOPLE
35 MAJOR POP CENTERS (>50K)

5200 KM OF COASTLINE

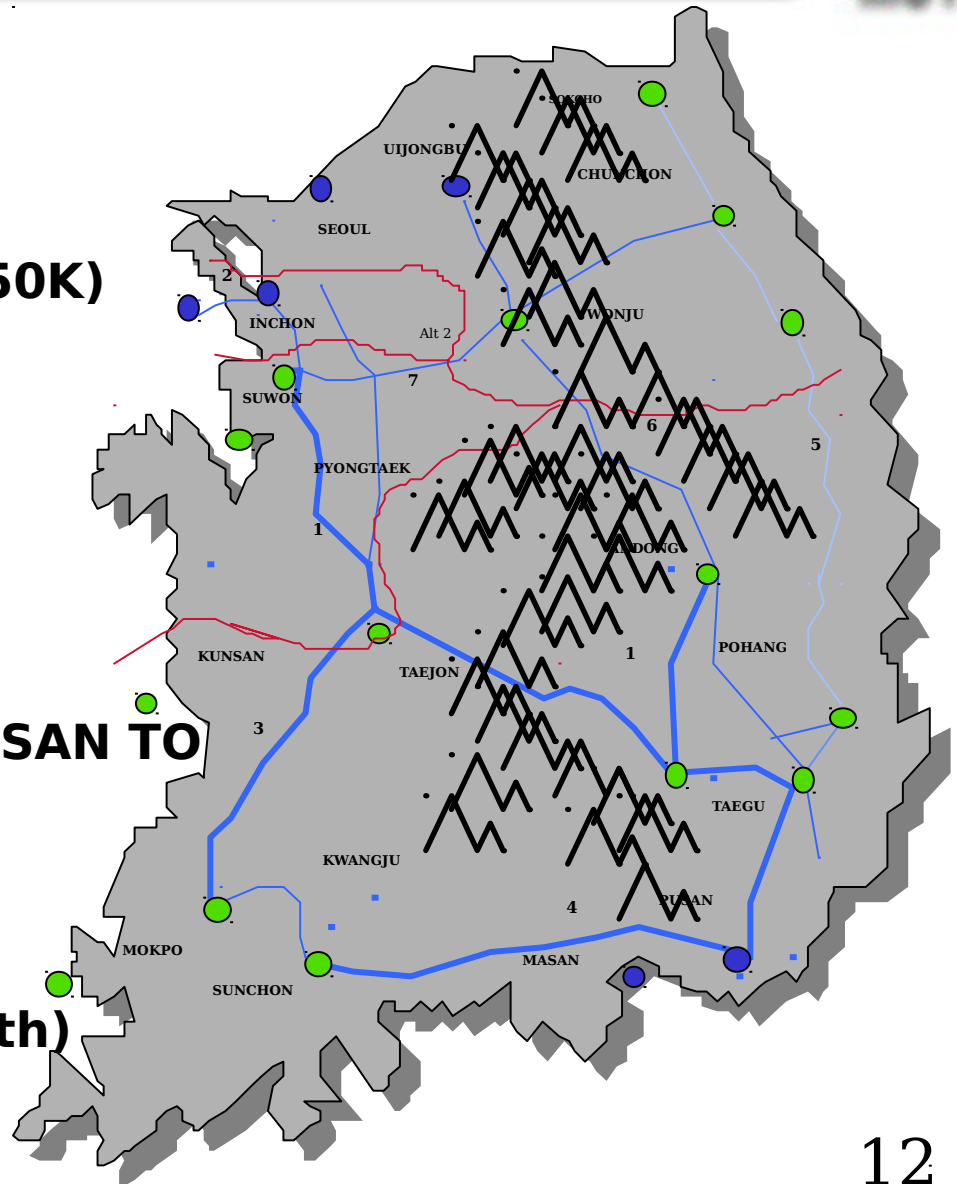
25 AIRFIELDS

22 PORTS / 5 HARBORS

176 BRIDGES / 11 TUNNELS: PUSAN TO SEOUL
(RIVERS / MOUNTAINS)

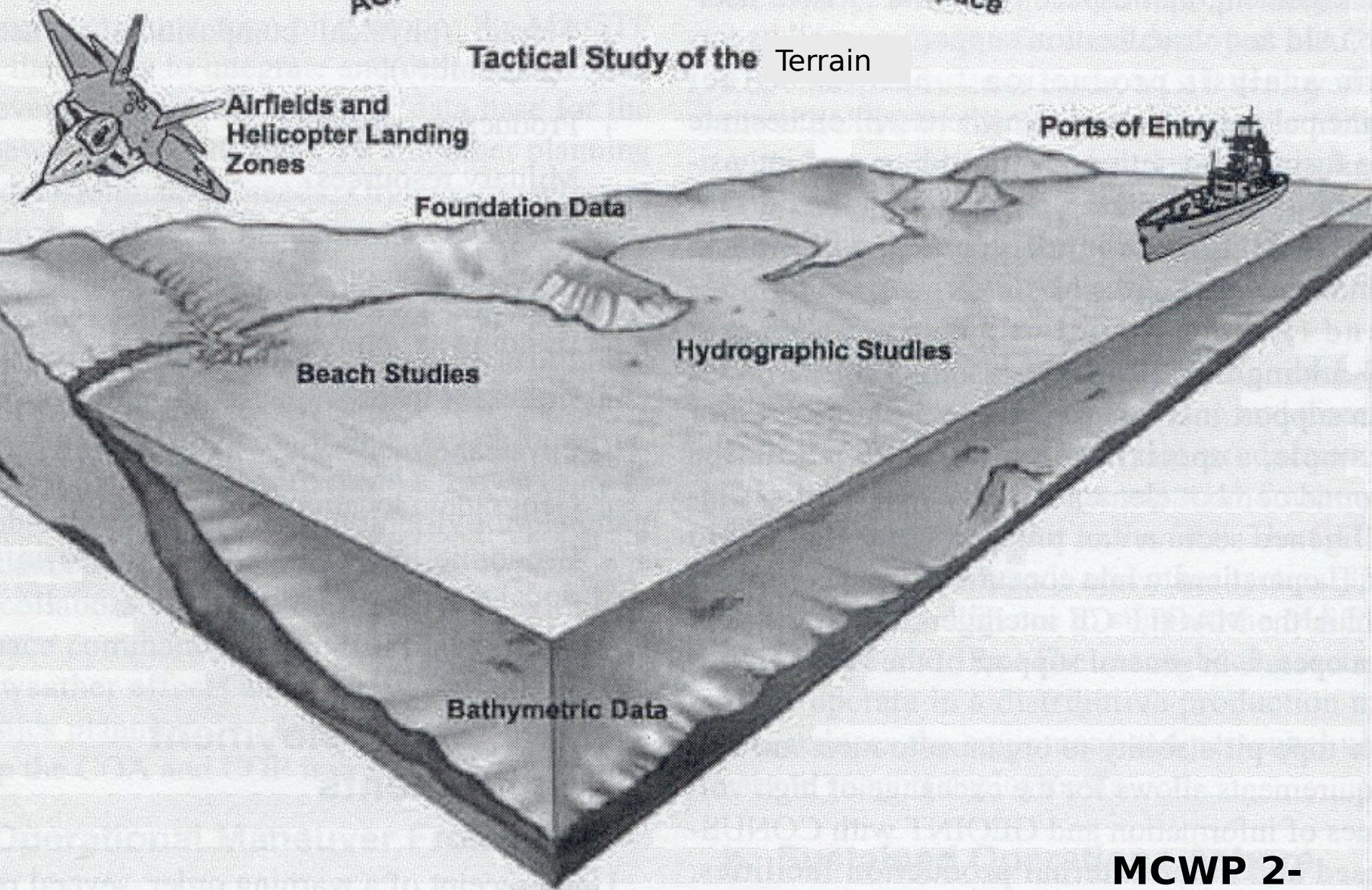
MONSOON SEASON: JUN-SEPT
(JUL-AUG 8"-15" Rain / Month)

12,000 KM OF LOCS



AOI Intelligence Preparation of the Battlespace

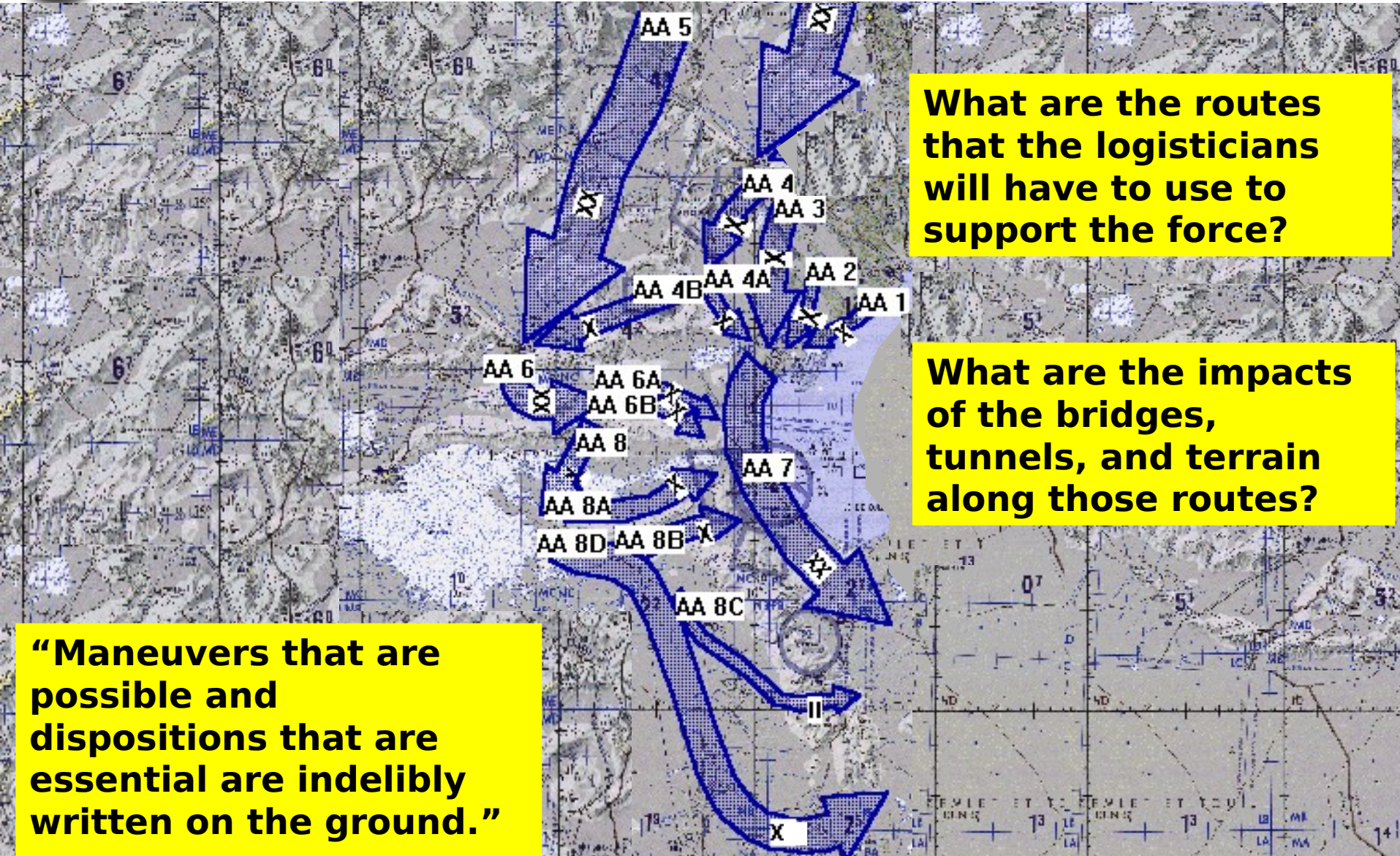
Tactical Study of the Terrain



Avenues Of Approach



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What are the routes that the logisticians will have to use to support the force?

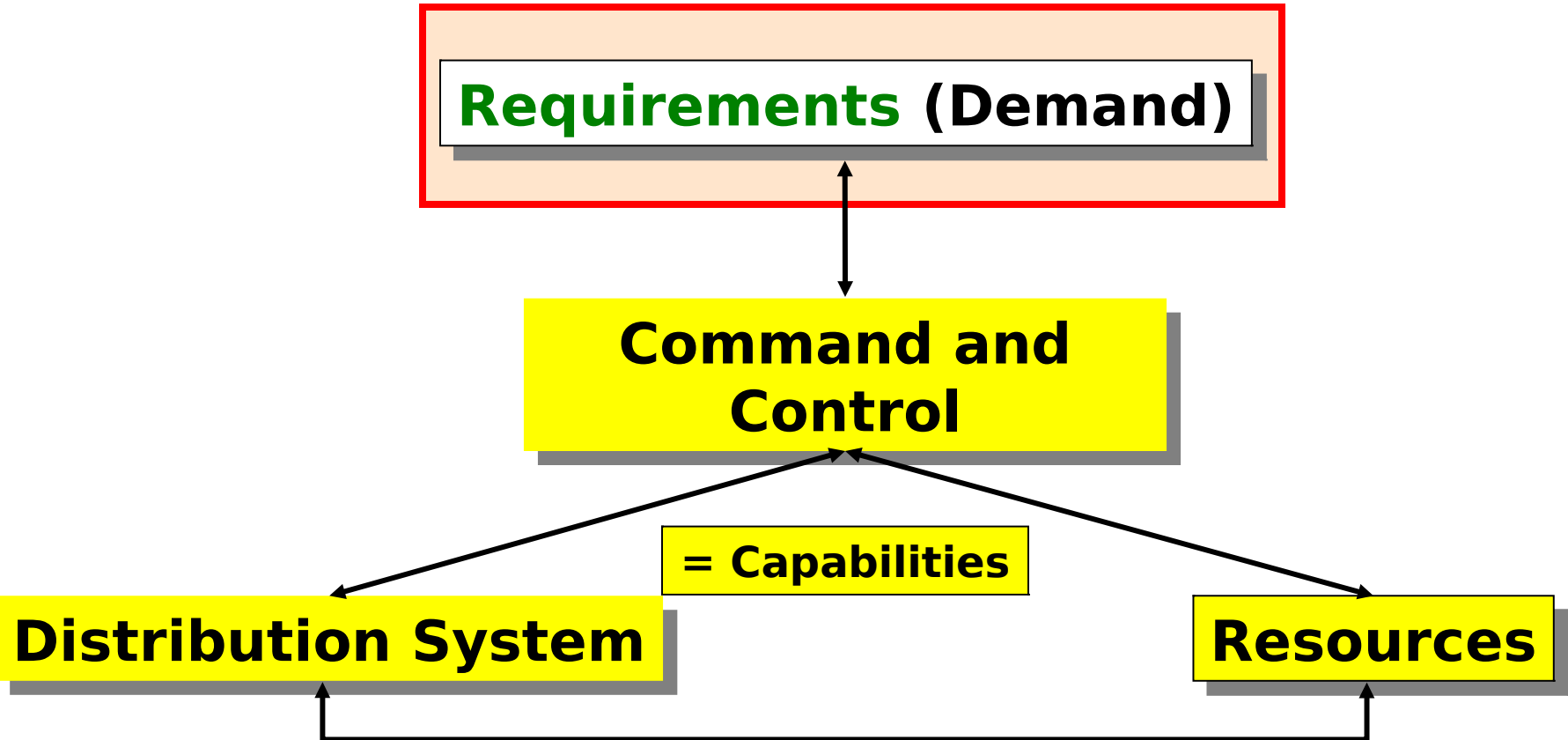
What are the impacts of the bridges, tunnels, and terrain along those routes?

“Maneuvers that are possible and dispositions that are essential are indelibly written on the ground.”



Logistics System Elements

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Requirements



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A responsibility of every organization!

- **Determine, Communicate, and Update**

- **Initial broad numbers from CE G4/CSSE?**

- systems, combat vehicles, and personnel

- Command and Support Relationships

(Is logistics solely a Service responsibility?)

- Other Marine forces
- Naval Engineering forces
- Other Service Forces

(i.e. Maneuver, Fire Support, CSS augmentation)

Requirements



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- Influencing Factors (cont.)
 - Mission assigned
 - Distances and terrain
 - Engagement prediction and analysis
 - Desired effects and usage rates
 - Ammo and fuel consumption
 - Organic capability to support
 - Combat loads/stockage levels






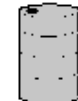













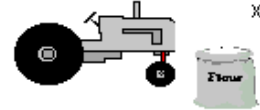
THE BIG THREE

- Water (I)
- Fuel (III)
- Ammunition (V)

“Transportation issues seemed to overshadow other concerns due to the vast amount of supplies, equipment, and personnel that needed to be moved”

-Col. Alexander

Classes and Subclasses of Supply

	Symbols		Subclasses
CLASS I Subsistence			A - NONPERISHABLE C - COMBAT RATIONS R - REFRIGERATED S - NONREFRIGERATED W - WATER
CLASS II Clothing, individual eqpt., tools, admin. supplies			A - AIR B - GROUND SUPPORT MATERIEL E - GENERAL SUPPLIES F - CLOTHING G - ELECTRONICS M - WEAPONS T - INDUSTRIAL SUPPLIES
CLASS III Petroleum, oils, lubricants			A - POL FOR AIRCRAFT W - POL FOR SURFACE VEHICLES P - PACKAGED POL
CLASS IV Construction materiel			A - CONSTRUCTION B - BARRIER
CLASS V Ammunition			A - AIR DELIVERY W - GROUND
CLASS VI Personal demand items			A - AIR B - GROUND SUPPORT MATERIEL D - ADMIN. VEHICLES G - ELECTRONICS K - TACTICAL VEHICLES L - MISSILES M - WEAPONS N - SPECIAL WEAPONS T - INDUSTRIAL MATERIEL X - AIRCRAFT ENGINES
CLASS VII Major end items: racks, pylons, tracked vehicles, etc.			A - MEDICAL MATERIEL B - BLOOD/FLUIDS
CLASS VIII Medical materials			A - AIR B - GROUND SUPPORT MATERIEL D - ADMIN. VEHICLES G - ELECTRONICS K - TACTICAL VEHICLES L - MISSILES M - WEAPONS N - SPECIAL WEAPONS T - INDUSTRIAL MATERIEL X - AIRCRAFT ENGINES
CLASS IX Repair parts			
CLASS X Material for nonmilitary programs			

Tools To Assist



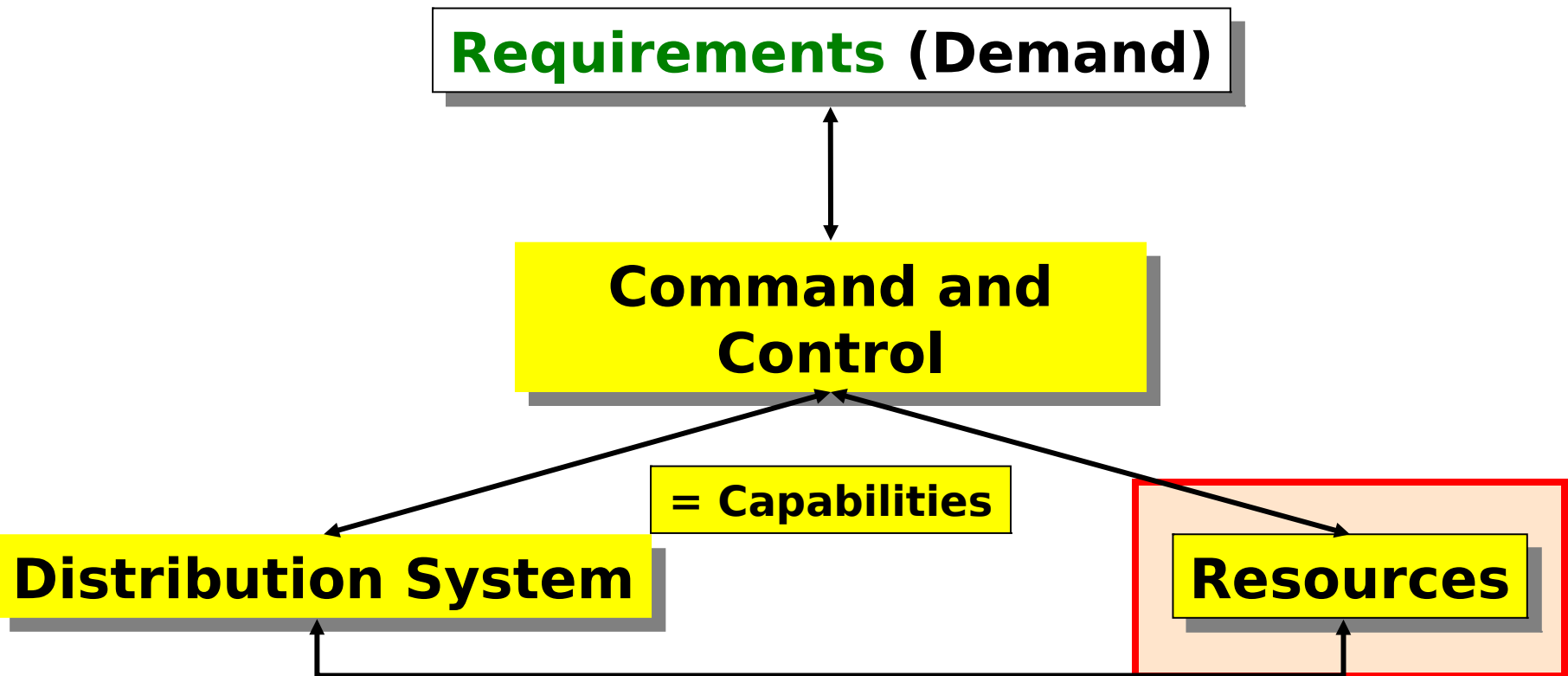
MSTP

- HQMC
 - MCO 8010.1E (Class V (W) Planning Factors)
 - CASEST 3.6 (Casualty Estimator) [MPP-60]
- Contractor Developing
 - CLC2S (Developing for GCSS-MC) [ONR]
 - Loggie Seaway [Albany]
- User Developed Tools
 - LOG2000 (Excel Based Workbook) [MSTP LOGREF CD]
 - LEW MC (Excel Based Workbook) [MSTP LOGREF CD]
 - OPLOG Planner (US Army Developed) [MSTP LOGREF CD]



Logistics System Elements

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Resources



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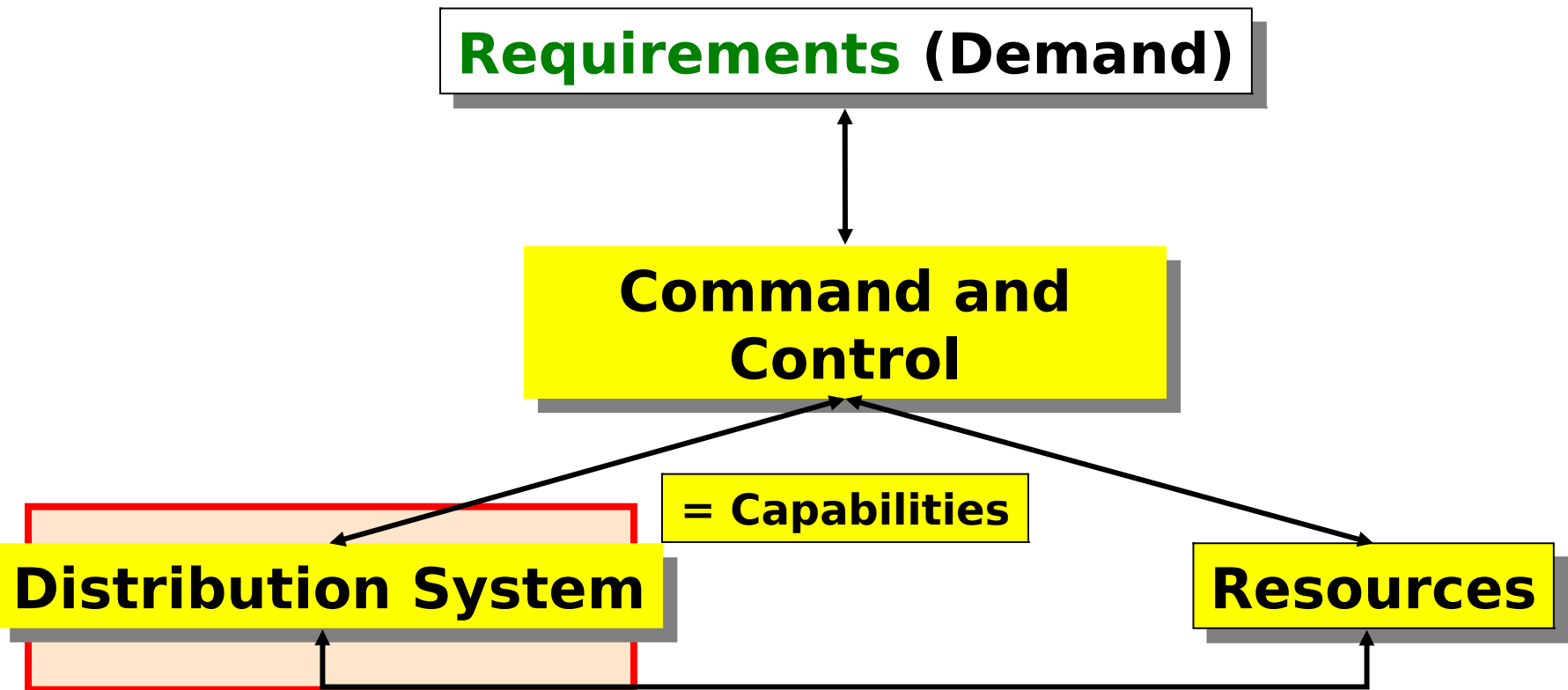
Match Requirements to Resources!

- People and Equipment
 - CSSE T/E and T/O
 - T/E and T/O for organic logistics resources
 - Other Services Logistics Forces
- Common User Logistics
- Prepositioned Stocks
 - Land Based
 - MPS
- Host Nation Support (HNS)/HN Infrastructure
- Sustainment Flow (TPFDD)



Logistics System Elements

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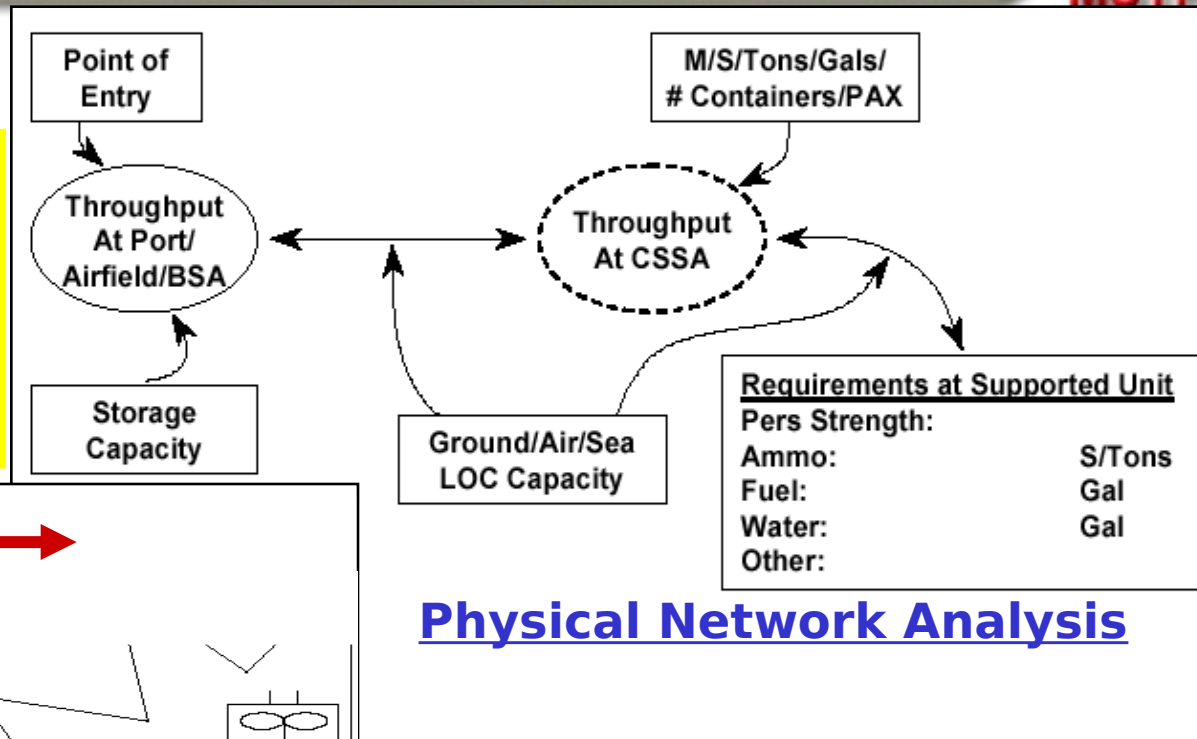


Distribution System

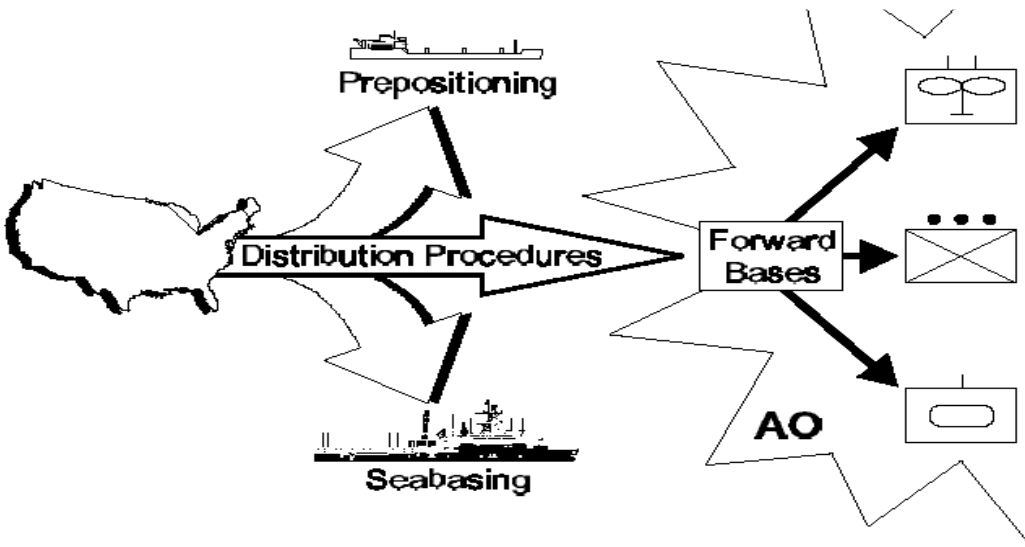


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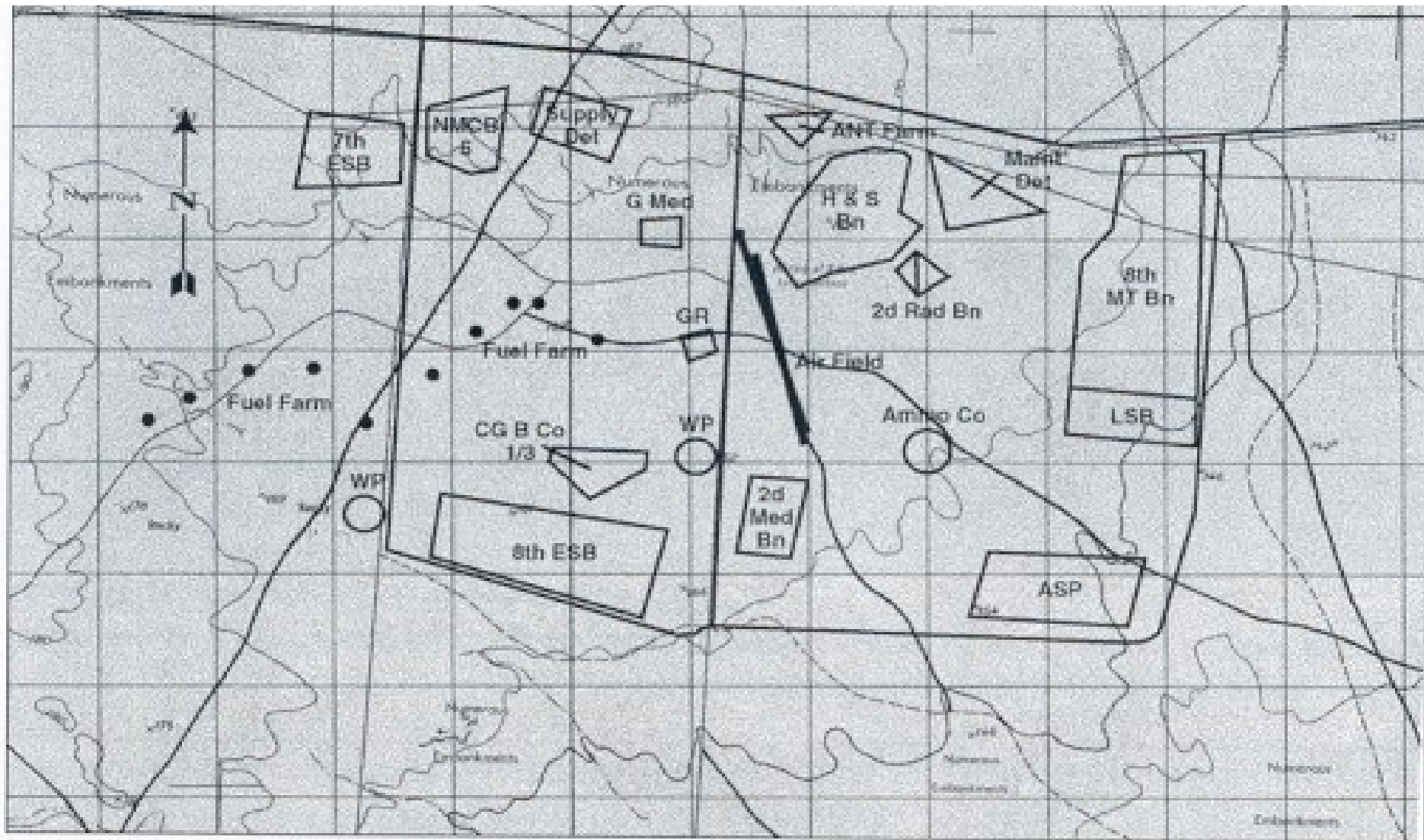
**Resources +
Distribution System
determine
possibilities to fulfill
user Requirements**



**Strategic
Tactical**

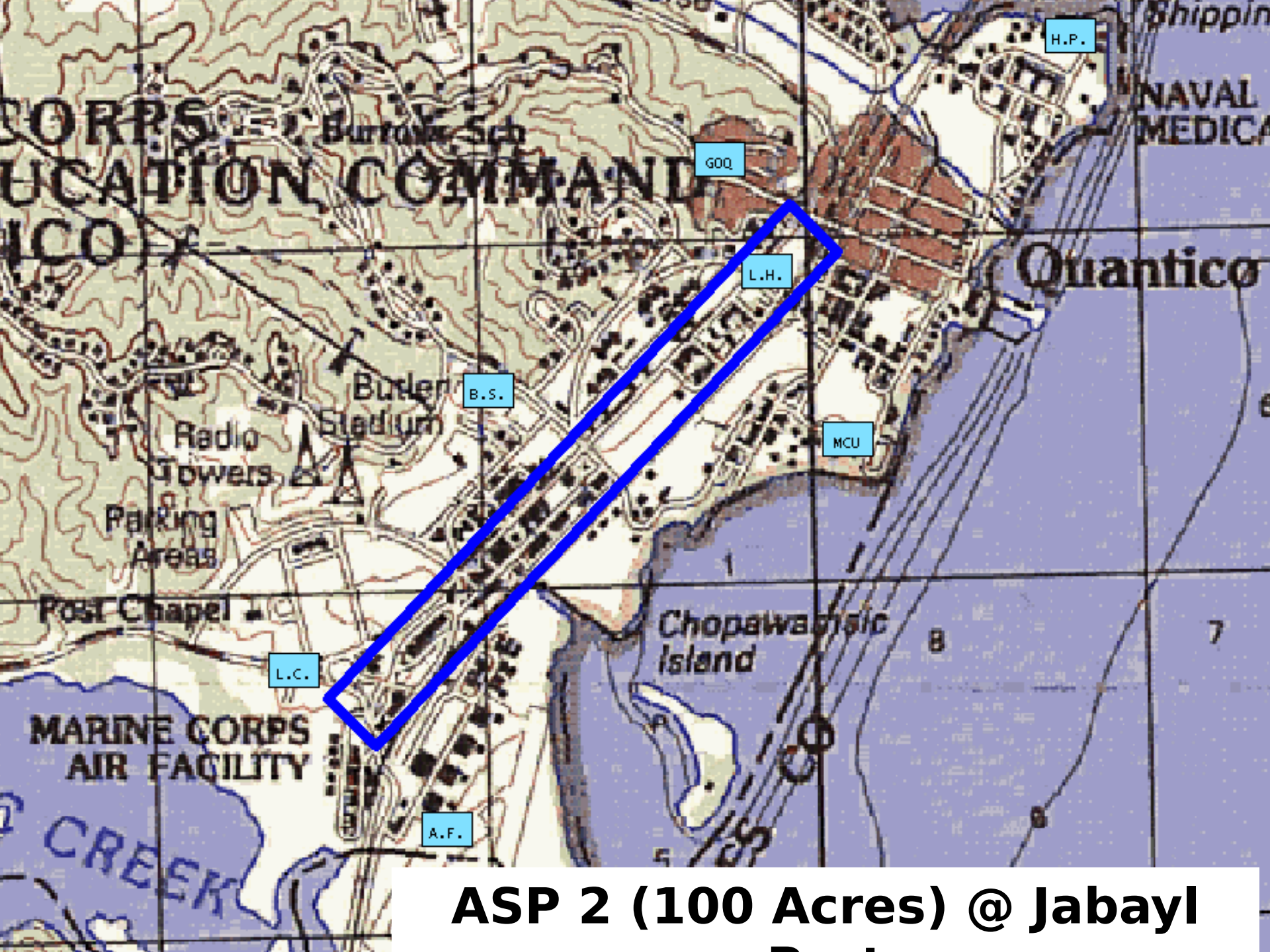


WHAT TERRAIN IS REQUIRED?

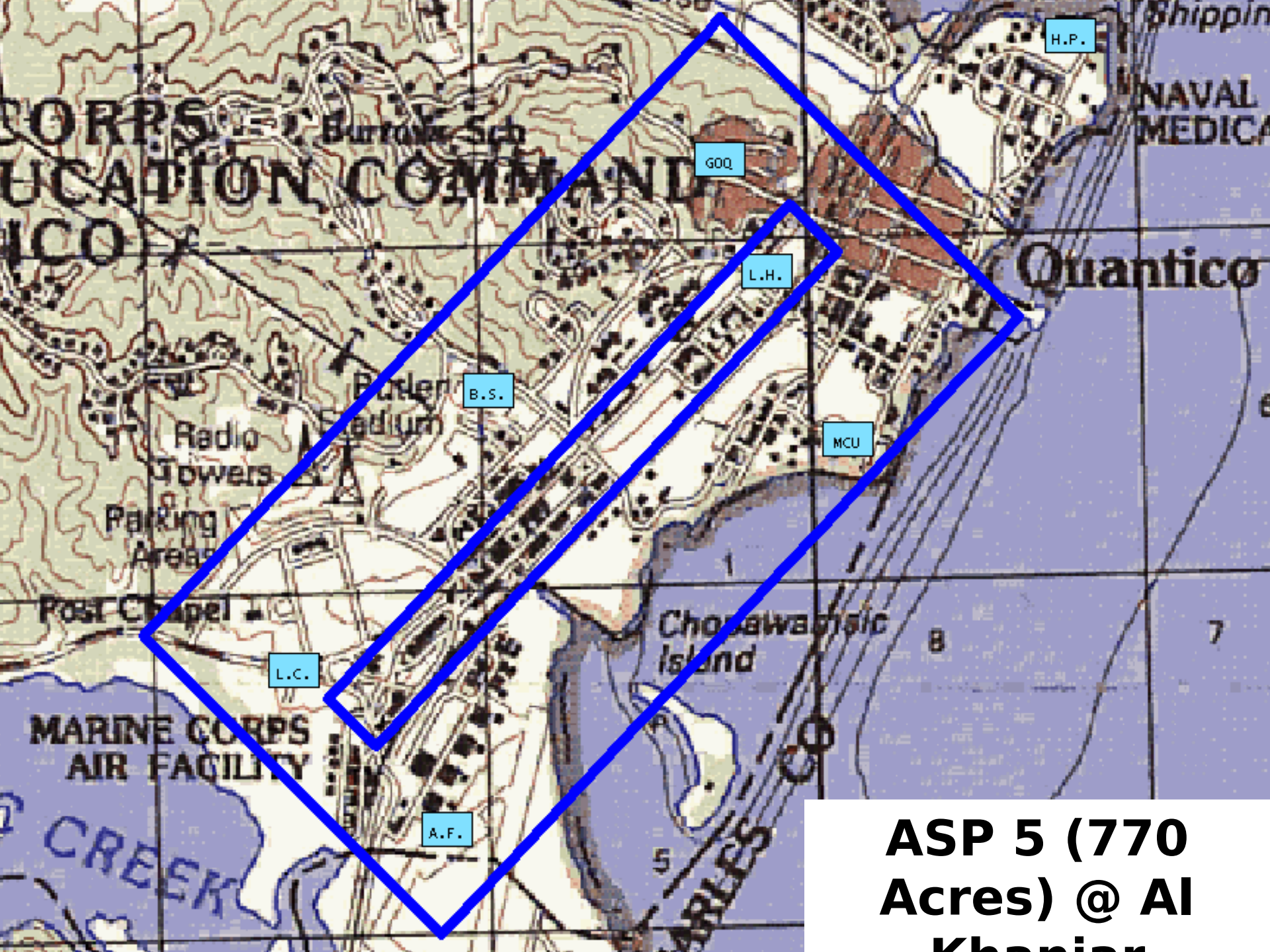


DSC Command Chronology, Dec 1990-Feb 1991.

The DSC designed Kibrit to be spread over 40 square kilometers. CSSA-1 overlay shows the vast size of the logistics area needed to support two attacking divisions.



ASP 2 (100 Acres) @ Jabayl



**ASP 5 (770
Acres) @ Al
Khanian**

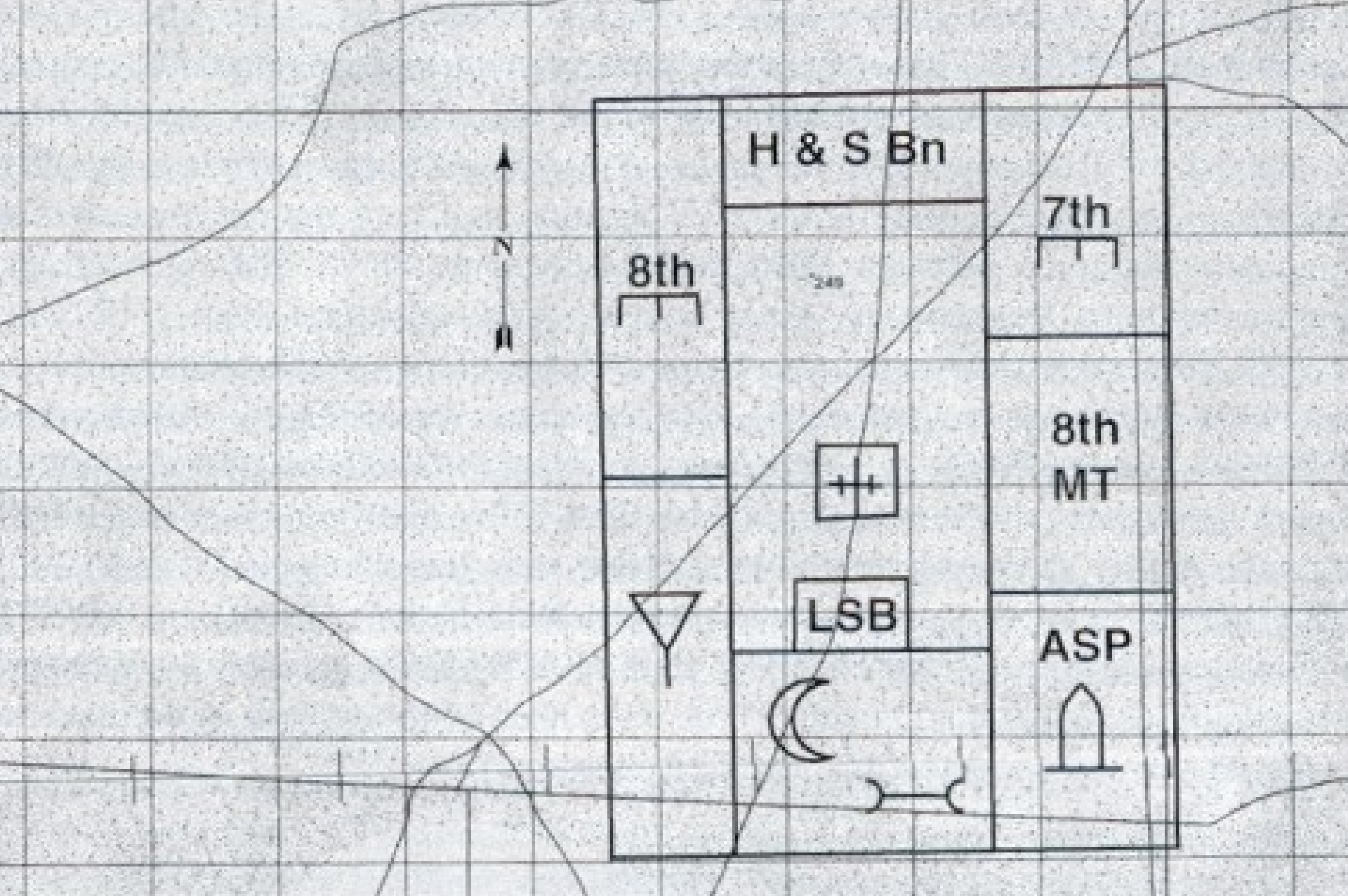
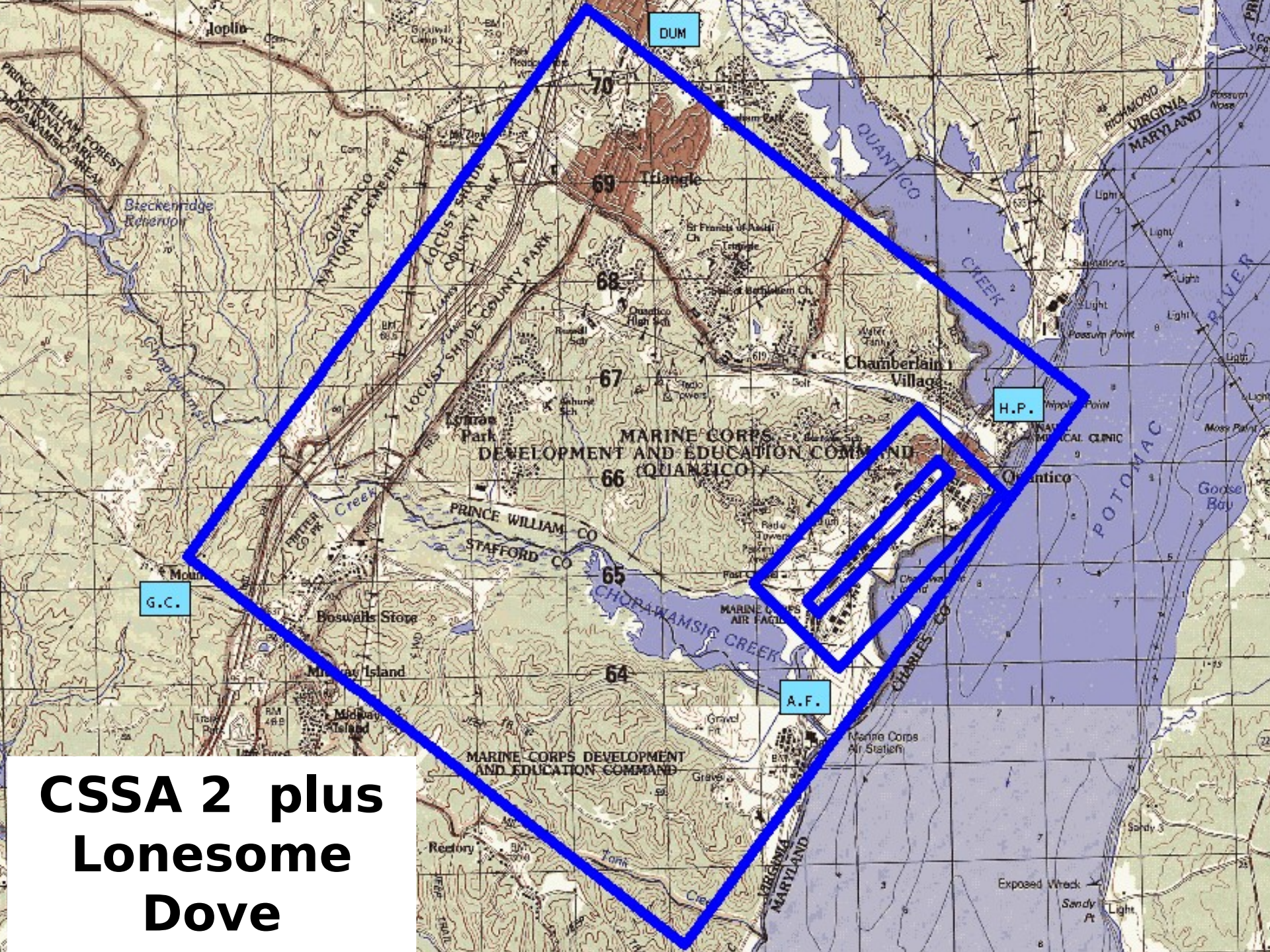


Diagram of CSSA-2 at Al Khanjar (SOURCE: DSC Cmd Chron 22 Dec 90 - 15 Feb 91)



**CSSA 2 plus
Lonesome
Dove**

**LONESOME
DOVE**

AL KHANJAR

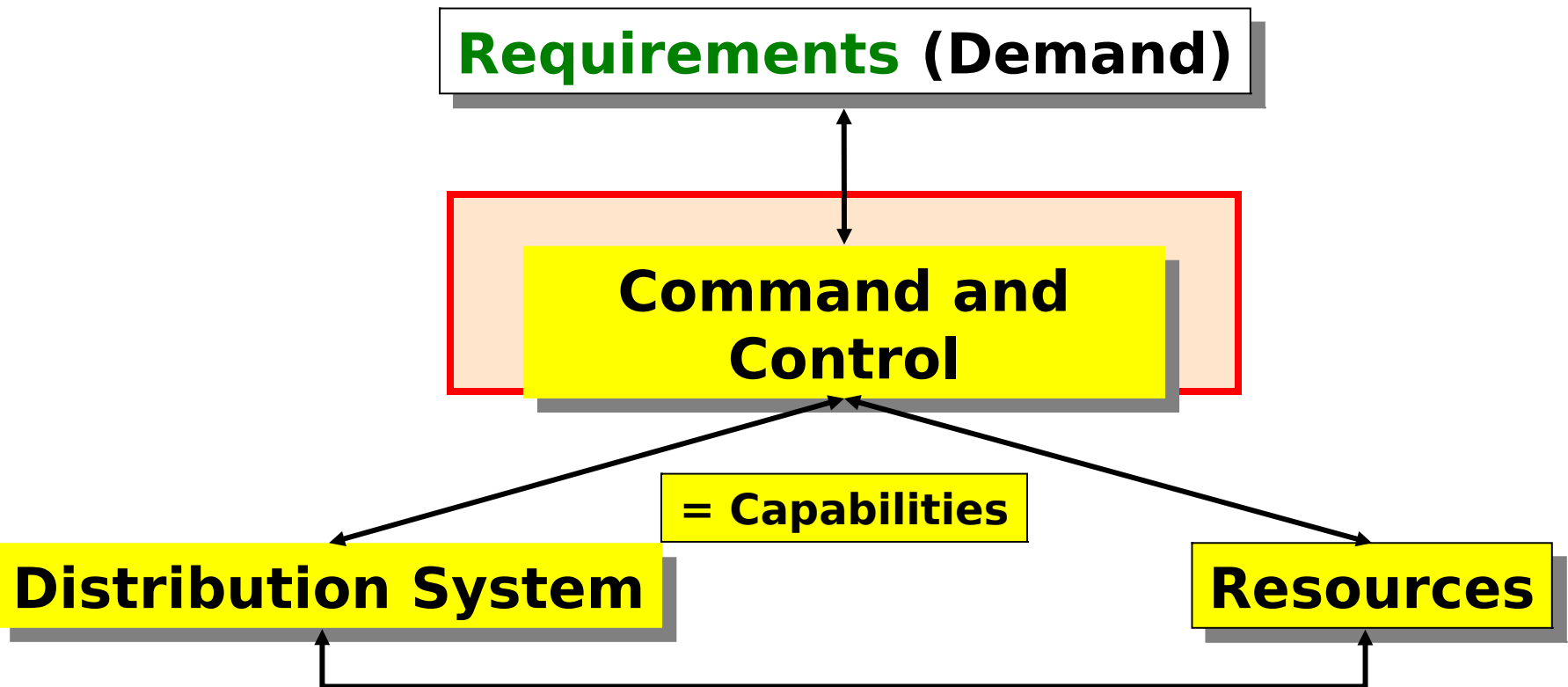
← ~ 20
km →





Logistics System Elements

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Command And Control



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Apply a **Command and Control** structure over **Resources** and the **Distribution System** to meet the **Requirements**.

- Task Organization
 - Supporting Units
 - C² HQs
- Mission Assignments
 - Direct Support
 - General Support
- Communications Methodology and Means
 - How/Where to connect with HHQs and supported units?
 - What do they communicate with these elements?



Logistics System Elements

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- Organic capability
- Stockage levels
- Usage rates
- Weapons systems, combat vehicles, personnel

Requirements (Demand)

- Engagement prediction/analysis
- Mission assigned
 - Desired effects
 - Ammo mgmt plan
 - Fuel mgmt plan

Command and Control

- Task organizations
- Mission assignments
- Orders
- Communications methodology & systems

= Capabilities

Distribution System

- CSS installations
- Distribution methods/procedures

Resources

- CSSE T/E
- LOCs (ground, air, sea)
- HNS/HN infrastructure
- Prepositioning stocks

Ponder This...



MSTP

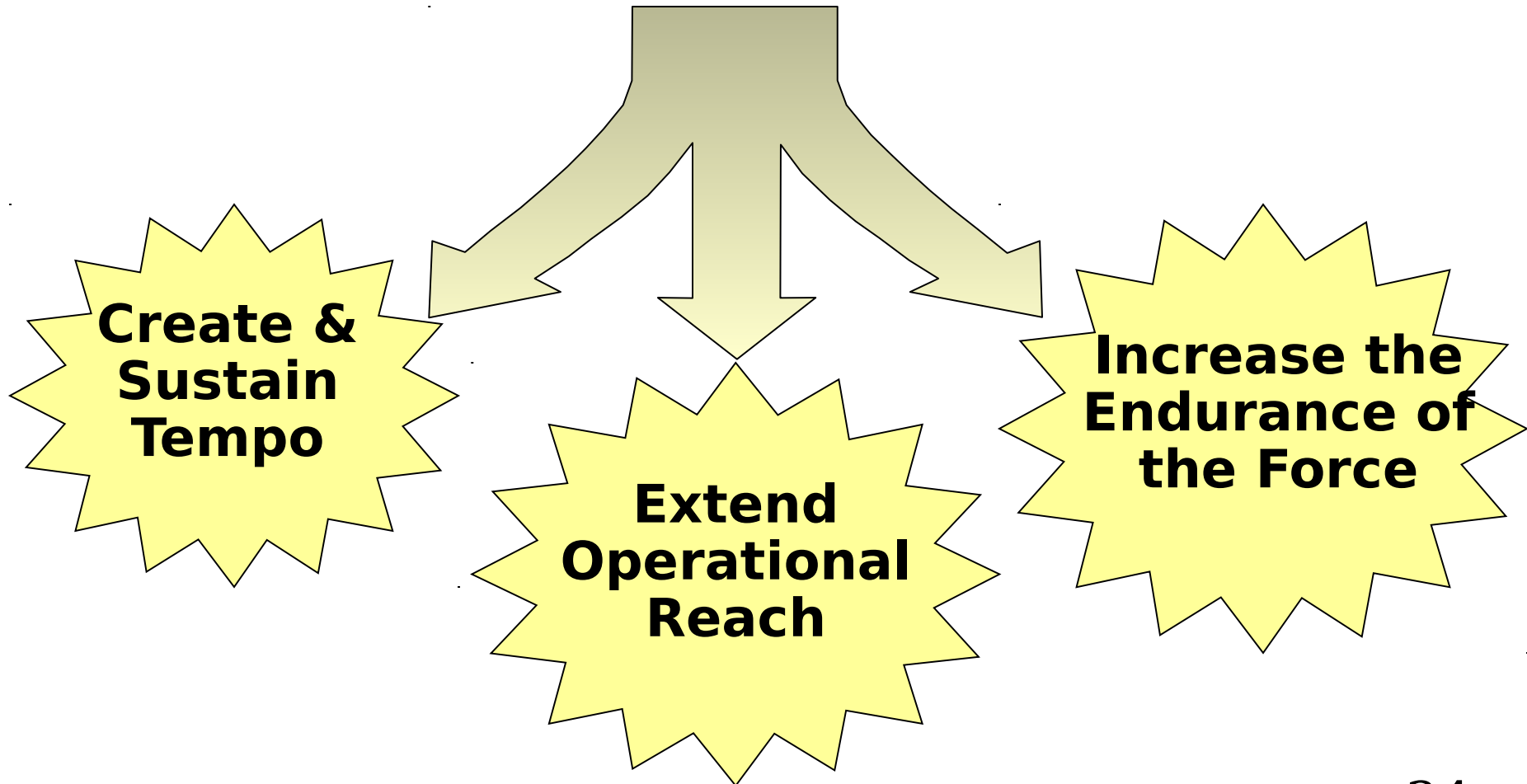
- How will you task organize your CSS forces?
- What infrastructure will you employ or develop to support the force?
- How will sustaining the force impact battle-rhythm and tempo?
- What risk will you accept in the positioning of CSS assets?
- How will you leverage joint force logistics providers to support Marine forces?

Logistics Bottomline



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What do we achieve through logistic planning and execution?



Summary



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- Examined logistics as a Science and an Art
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